

## FortiMoM

### Hyperscaled security management for large enterprises and service providers

Large networking environments face unique security scaling challenges, especially when working with multiple management consoles. Unified visibility of management tasks, consolidation of object databases, performance issues related to policy pushes and domain portability are key tenets of management that typically become unwieldy with tens of thousands of security devices.

FortiMoM integrates with Fortinet products (such as FortiManager and FortiAnalyzer) to provide hyperscaled security operations for large numbers of Fortinet devices. These functions include the ability to consolidate objects/domains/devices into a higher level view, better distribute performance intensive workloads and dynamically expand in mass scale environments.

#### Key Features & Benefits

<b>Manager of managers</b>	Ability to control multiple FortiManagers/FortiAnalyzers for mass scale security operations.
<b>Consolidated dashboard</b>	Immediate visibility into problematic devices or current management tasks in progress.
<b>Unified objects database</b>	Holistic view of objects (devices, policy packages, domains, etc.) residing on disparate systems.
<b>In-parallel security management</b>	Higher speed policy, firmware and content security updates to downstream devices.
<b>Migration and cloning</b>	Enables migration and instantaneous provisioning of devices/domains to any management system.

#### FortiMoM™

Hyperscaled security management for large enterprises and service providers



*FortiMoM acts as a logical “manager of managers” to ensure that each management device is working in unison and more intelligently.*

#### Highlights

- Manages tens of thousands of downstream security devices
- Instant top level oversight into current management tasks
- Logical view of objects residing on varying FortiManagers/FortiAnalyzers
- Increased performance of policy push and update operations
- Migration of devices/VDOMs/ADOMs to other management consoles
- Create new domains rapidly en masse



## FEATURES

### Manager of managers

Scaling, even with high-end standalone management consoles, can be challenging as there is still a need for high performance updates to downstream devices and near instantaneous object transactions. These inefficiencies manifest with only several hundred managed security devices, but prove to be untenable when overseeing thousands of security devices. FortiMoM acts as a logical “manager of managers” to ensure that each management device is working in unison and more intelligently. It allows you to effectively manage tens of thousands of cascaded security devices with a single command console.

### Aggregated dashboard and task visibility

When using multiple management systems, it can be difficult to answer questions like: which devices are currently unresponsive or which devices have the latest firmware updates applied? Aggregating information is cumbersome and analytics are difficult to assemble because it requires manual intervention and calculation. FortiMoM can give you a centralized view of activity by connecting to Fortinet products and creating an umbrella view using comprehensive dashboards and a device/domain viewer.

### Unified object database

Disparate security administration systems often require the duplication of efforts, such as recreation of enterprise objects or policies. Ultimately, this can lead to misconfiguration and potentially open up your organization to security breaches. In addition, this duplication is time consuming and forces you to spend your cycles circumventing product constraints rather than focusing on security operations. FortiMoM gives you a logical, unified view of objects across all security devices. Any changes to objects, policies or domains are immediately reflected in relevant downstream management consoles.

### In-parallel security task management

A significant day to day operational challenge with thousands of security devices is related to push times — the ability to update firewalls and other security devices with new policies, firmware and content security quickly and within pre-determined maintenance windows. Standalone management consoles have limitations associated with their individual performance, but multiple management consoles running in parallel and working in unison can push updates at much higher speeds. FortiMoM can orchestrate these in-parallel security operations in a highly optimized manner, distributing workload amongst management products more evenly. This results in faster push times and can minimize the patching attack window often exploited during the initial stages of a breach.

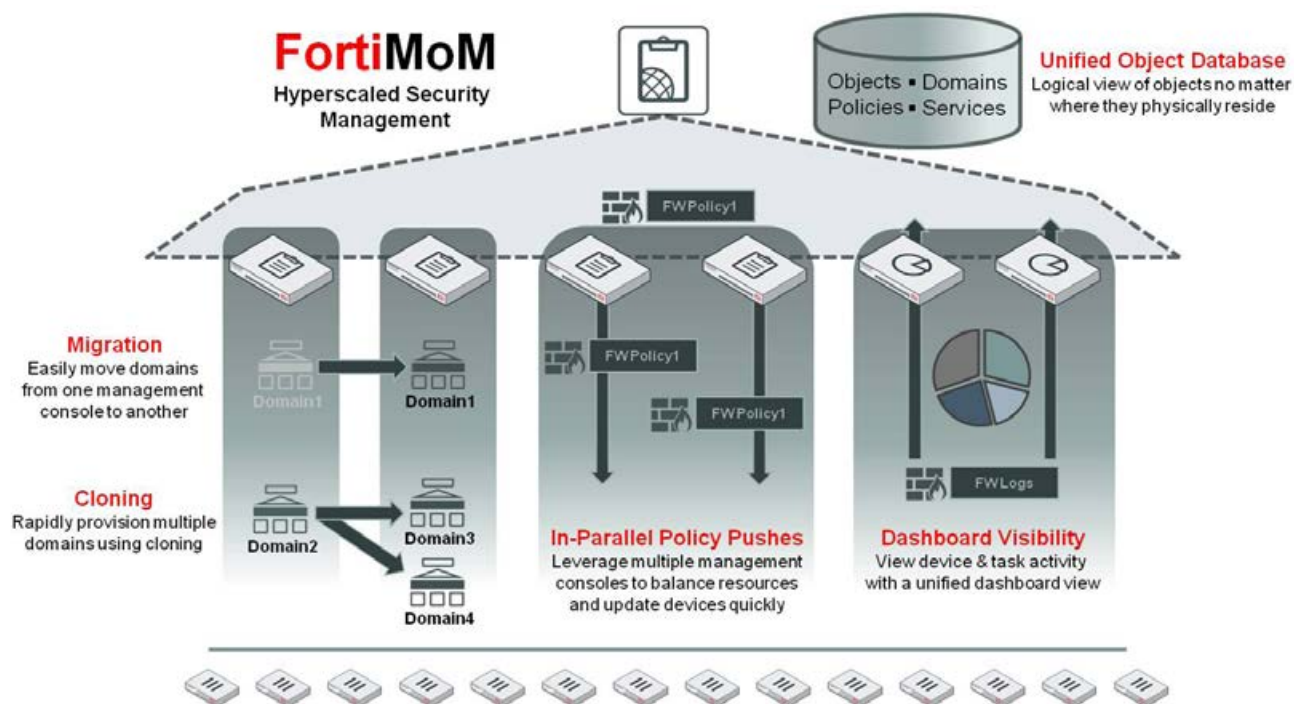
### Migration operations

Typically, the number of devices managed by a standalone administration system is inversely proportional to its operational inefficiency. The idealistic “single pane of glass” becomes a “single pain of glass” because object databases become unmanageable and overall performance is reduced. These inevitable growing pains can be averted with the device and domain migration features built-in to FortiMoM. For instance, six domains residing on a standalone management system can be migrated to three domains on two management systems, thereby distributing workloads and freeing system resources for performance intensive operations.

### Large scale domain provisioning

During the setup stages of a mass scale security infrastructure, a simple task such as creating domains can be burdensome and time consuming. And without incredible foresight and planning, it is often very difficult to predict how your domain and organizational hierarchy will evolve. FortiMoM allows you to rapidly provision domains, thereby saving countless hours of setup time. When used in conjunction with domain migration, FortiMoM's ability to clone domains rapidly while utilizing a standardized naming convention allows you to logically and quickly reorganize domains.

## DEPLOYMENT



## ORDER INFORMATION AND SYSTEM REQUIREMENTS

Product	SKU	Description
FortiMoM-VM	FMM-VM-BASE	Base license for stackable FortiMoM-VM. Manages up to 100 Fortinet devices/virtual domains.
FortiMoM-100 Device Add-on	FMM-100-UG	Upgrade license for adding 100 devices to FortiMoM-VM-BASE.
FortiMoM-1000 Device Add-on	FMM-1000-UG	Upgrade license for adding 1,000 devices to FortiMoM-VM-BASE.
FortiMoM-5000 Device Add-on	FMM-5000-UG	Upgrade license for adding 5,000 devices to FortiMoM-VM-BASE.
FortiMoM-20000 Device Add-on	FMM-20000-UG	Upgrade license for adding 20,000 devices to FortiMoM-VM-BASE.
System Requirements	FMM-VM-BASE	
Hypervisor Support	VMware ESXi 5.5 and later	
vCPUs (Recommended Minimum)	4	
Memory Support (Recommended Minimum)	4 GB	
Storage (Recommended Minimum)	80 GB	



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